

## 44DL

### Digital/Analog Broadband RF Wattmeter

The Telewave Model 44DL Broadband RF Wattmeter is a compact, versatile test instrument for the direct measurement of forward and reflected RF power.

Like Telewave's venerable 44A Wattmeter, the 44DL wattmeter is housed in the same ruggedized housing and form factor. The digital version offers the same capability to measure CW, FM and FSK signals AND can display the power readings in Watts or dBm with today's popular digital modulations formats like DMR, P25, LSM and others (see User Manual for details).

This meter does not require field calibration, frequency elements (slugs), or the use of correction tables at any temperature or frequency within specification.

The features of the 44DL include:

- Long life rechargeable batteries, re-charge via USB
- -50 dB bi-directional sample/injection port, SMA Female connector
- Tough Metal case, shock mounted and recessed display
- Large buttons that can be operated when wearing gloves

Included accessories:

- Universal (wall wart) power supply 90 to 250 VAC in, USB 5 VDC out
- Universal AC Plug Adapter Kit (IEC Type A Plug to Type C, G, or I Plug)
- USB type A to type B charging cable

Optional accessories: TC44 Leather Carry Case

RF Connectors: Thru-Line (TX & ANT) N-Female, Sample port SMA-Female



Rear View



TC44 Carry Case

SPECIFICATIONS			
Frequency (Model Dependent)	88 MHz to 1 GHz	Calibration Cycle	Factory – once a year
Impedance (all connections)	50 ohms	Battery Life	6 Hours (after full charge)
Insertion Match	< 1.21:1 (> 20.5 dB)	Operating & Storage Humidity	35 to 85 % non-condensing
Forward Power Range	5 Watt to 500 Watts 37 dBm to 57 dBm	Temperature Range (USB Conn) (USB Not Connected) (Long Term Storage)	+32° to 113°F (0° to +45°C) -4° to 122°F (-20° to +50°C) 68° to 86°F (+20° to +30°C)
Reverse Power Range	1 Watt to 100 Watts 30 dBm to 50 dBm	Meter weight	3 lb. (1.4 kg)
RMS Power Measurement Accuracy – FM/FMSK	Up to 250 Watts: ±0.4 dB >250 Watts to 500 Watts: ± 0.75 dB	Meter dimensions (HWD) inches (cm) not including handle	6.75" x 5.5" x 4.0" (17.14 x 13.97 x 10.16)
Thru Line Insert Loss	< 0.1 dB	Shipping weight meter only Shipping weight w/ opt case	4 lb. (1.8 kg) 5 lb. (2.3 kg)
Sample Port insertion Loss (Bi-Directional to TX & ANT ports)	50 dB (nominal)	Shipping dimensions (HWD) inches (cm)	10.0" x 8.0" x 6.0" (25.40 x 20.32 x 15.24)
Analog/Digital Modulation Support (See User Manual for details)	FM/FSK DMR/P25-P2 UL LSM/P25-P2 DL		